



Innovative Engineering Solutions



EVEREST OILSYST VACUUM SYSTEM  
MORE THAN 100 INSTALLATIONS

## OILSYST VACUUM SYSTEM

**EverestVacuum** a brand of Everest Blower Systems Private Limited brings to its customers, a milestone product **OilSyst** Vacuum System. This engineered vacuum package consists of two/three stage Mechanical Vacuum Booster combination along with a specially modified Liquid Ring Vacuum Pump to be used typically in Oil re-refining applications wherein heavy process carryover is carried into the backup pump. The liquid ring pumps have been modified to handle excessive load coming in because of heavy carbon carryover. These backup pumps are installed with Mechanical Seal as opposed to Gland Packing (std.). These vacuum packages come with Cyclone Separator, Inline Condenser and Inline Filter as standard.

### KEY FEATURES

- Superior level of consistent process vacuum
- Complete plug and play skid-mounted engineered vacuum package offering dry pumping as opposed to wet pumping TVR technology (Steam Boosters with Water Ejectors)
- 100% tested and continuously improving design offering high reliability and low overall cost of ownership

### SALIENT FEATURES

- High/Superior Ultimate Vacuum at Blank-Off
- Instantaneous start/stop with no warmup/warm-down time as opposed to the conventional steam ejector system. High operating speed leading to the faster initial evacuation
- Low vibration and noise, thus the complete package can be placed at heights leading to low conductance losses
- Low overall power consumption

### SCOPE OF SUPPLY

- Cyclone Separator suitably sized to reduce process carry over into the vacuum system
- Interstage proprietary design condenser S.S 304, high-efficiency corrugated tube, design with a collection tank
- Interstage Cartridge Re-Usable Filter + Filter cartridge for vacuum duty, low-pressure drop, high efficiency with in-built collection pot
- Air liquid separator at the discharge of the OilSyst pump, with up to 95% air to oil separation
- Dedicated oil circulation circuit consisting of an inline cartridge filter with bypass, circulation pump, plate heat exchanger and rotameter circuit
- Process specific engineered electric control panel and control algorithm programmed through Program Logic Controller (PLC) for total automation. (with VFD for all MVB) and battery limit wiring
- Others such as: Interconnecting Bellows, Coupling & Coupling Guard; KF-16 tapping universal gauge point + BVG with Siphon; High Vacuum O-Ring sealing on all joints (ANSI B16.5/Eq)

ENGINEERING | EVALUATION | DESIGNING  
MANUFACTURING | TESTING | EXECUTION | POSTSALES AND SERVICE

RELIABLE LOW MAINTENANCE DURABLE INDIGENOUS COST EFFICIENT

### EVEREST PRODUCT RANGE

#### VACUUM

MECHANICAL VACUUM BOOSTERS  
DRY SCREW VACUUM PUMPS  
SUPERVAC  
ROTARY VANE VACUUM PUMP  
SUPERVANE

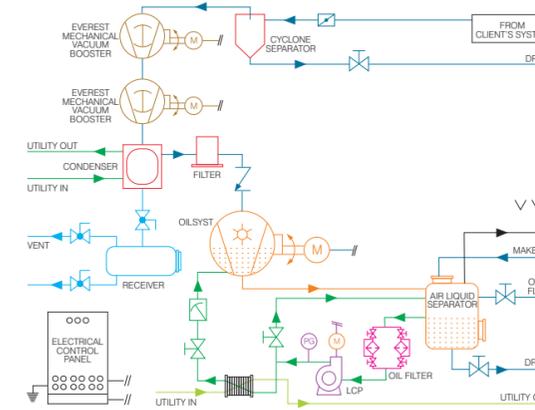
#### PRESSURE

TWIN LOBE ROOTS BLOWERS  
TRI LOBE ROOTS BLOWERS  
CENTRIFUGAL BLOWERS  
TURBO BLOWERS  
BLOWER PACKAGES

#### VACUUM SYSTEMS (WET)

ENGINEERED VACUUM SYSTEMS  
MECHANICAL VAPOUR RECOMPRESSOR (MVR|MVC)  
LOW TEMPERATURE THERMAL EVAPORATOR (LTTE)

### P&I DIAGRAM



### EVEREST OILSYST VACUUM SYSTEMS

#### SPECIFICATIONS

| Model           |                   | SKID 1   | SKID 2 | SKID 2.5 | SKID 3 | SKID 4 | SKID 5 |
|-----------------|-------------------|--|--------|----------|--------|--------|--------|
| NOMINAL         | m3/hr             | 3500   | 6300   | 10400    | 12500  | 18200  | 30200  |
| DISPLACEMENT    | CFM               | 2060   | 3700   | 5500     | 7350   | 10710  | 17775  |
| ULTIMATE VACUUM | Torr              | 0.010  | 0.010  | 0.010    | 0.005  | 0.005  | 0.001  |
|                 | Pa                | 1.33   | 1.33   | 1.33     | 0.66   | 0.66   | 0.133  |
| POWER (KW)      | Connected         | 26.10  | 35.40  | 59.7     | 72.70  | 83.90  | 92.4   |
|                 | Consumed (approx) | 18.3   | 24.8   | 41.8     | 51     | 58.7   | 64.7   |
| PORT SIZE (NB)  | Suction           | 125  | 200    | 250      | 250    | 300    | 350    |
|                 | Discharge         | 65   | 65     | 65       | 65     | 65     | 65     |
| ISOLATION VALVE | L/Min.            | Manual / Electropneumatic Solenoid + NRV (SS+PTFE) |        |          |        |        |        |
| SKID STRUCTURE  | MS                | ISM, IS:808 1989                                   |        |          |        |        |        |
| APPROX WEIGHT   | Kg                | 3000   | 3500   | 4500     | 5000   | 6750   | TBA    |

Our technology is so flexible, we can custom manufacture **Special Blowers, Vacuum Pumps & Systems** by alloying and cross linking diverse designs to suit individual requirements and import substitutes.



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We don't just offer **Blowers, Boosters and Systems** we offer **SOLUTIONS !!**

\*TBA - To Be Announced